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PATENT TRADEMARK OFFICE

PATENT

Docket No. 27211/04031

UNITED STATES PATENT AND TRADEMARK OFFICE

11033 U.S. PTO
09/835727
04/16/01

In re patent application of Dill, et al.

Serial No.: Unknown

Art Unit:

Filed: Herewith

Examiner:

For: APPARATUS AND METHOD OF CTCM
ENCODING AND DECODING FOR A
DIGITAL COMMUNICATION SYSTEM

Assistant Commissioner of Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

1. Pursuant to 37 C.F.R. 1.97 and 1.98, and in compliance with 37 C.F.R. 1.56, the Office's attention is directed to the patents, publications and other information listed on the attached PTO-1449. A copy of each listed document is enclosed except for: (a) pending applications or (b) those previously cited or submitted to the Office in the following application(s) upon which this application relies for an earlier filing date under 35 U.S.C. 120:

Serial No.: _____
Filing Date: _____

Regarding any document, publication or other information for which a date is not given on the attached PTO-1449, Applicant(s) believe(s) the same may qualify as "prior" art to this application and should be treated accordingly, although Applicant(s) reserve(s) the right to contest the prior art status of any document, publication or information, should issue arise.

2. Regarding each listed document that is not in the English language, an English-language translation accompanies this Statement as indicated on the attached PTO-1449 or a concise explanation of the relevance of the document is set forth in the following document(s):

- ☐ (a) Copy of English language version of a search report indicating the degree of relevance found by the foreign office of each document being submitted from the search report.
- ☐ (b) Attachment entitled "Concise Explanation of Relevance of Non-English Language Documents".

3. Pursuant to 37 C.F.R. 1.97(b) this Statement is being filed:

- ☒ (a) Within 3 months of the filing date or date of entry into the National Stage.

☐ (b) Before the mailing date of a first Office Action on the merits. If this Statement is not filed before the mailing date of a first Office Action on the merits, the required certification is given below or, in the absence thereof, the Office is authorized to charge the required fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. **07-1625** for consideration of this Statement.

☐ (c) After the period set forth in 37 C.F.R. 1.97(b) but before the mailing date of either a final action or a notice of allowance.

☐ (1) The required certification is given below, or

☐ (2) Charge the fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. **03-0172**.

☐ (d) After the mailing date of either a final action or a notice of allowance, but before payment of the issue fee. Petition hereby is made for consideration of this Statement and the required certification is indicated below.

☐ (1) Charge the fee set forth in 37 C.F.R. 1.17(i)(1) to Deposit Account No. **03-0172**.

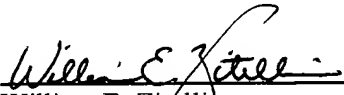
4. Certification (if applicable)

☐ (a) The undersigned hereby certifies that each item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than 3 months prior to the filing of this Statement.

☐ (b) The undersigned hereby certifies that no item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the undersigned's knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. 1.56(c) more than 3 months prior to the filing of this Statement.

5. The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. **03-0172**.

Respectfully submitted,

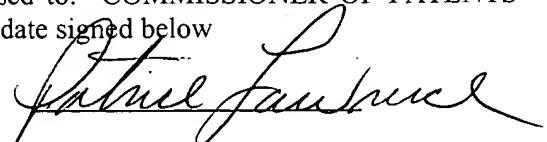

William E. Zitelli
Attorney for Applicants
Reg. No. 28,551

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below as first class mail in an envelope addressed to: COMMISSIONER OF PATENTS AND TRADEMARKS, WASHINGTON, D.C. 20231, on the date signed below

April 16, 2001
Date of Deposit

By:



Subst. Form PTO-1449

Atty. Docket No.: 27211/04031

Serial No.: Unknown

APPLICANT'S INFORMATION
DISCLOSURE STATEMENT

Applicant: Dill, et al.

Filing Date: Herewith

Group:

J1033 U.S. PTO
09/835727
04/16/01

U.S. PATENT DOCUMENTS

Initial*		Document No.	Date	Name	Class	Subcl.	Filing Date
	AA	5,721,746	Feb. 24, 1998	Hladik, et al.			
	AB	5,907,565	May 25, 1999	Alamouti			
	AC	5,983,388	Nov. 9, 1999	Friedman, et al.			
	AD	6,011,950	Jan. 4, 2000	Young			
	AE	6,115,436	Sep. 5, 2000	Ramesh et al.			
	AF						
	AG						
	AH						
	AI						
	AJ						

FOREIGN PATENT DOCUMENTS

	AK	Document No.	Date	Country	Class	Subcl.	Translation?
	AL	WO 96/17439	6 June 1996	Alamouti			

OTHER PRIOR ART

	AM	A TURBO CODE TUTORIAL, William E. Ryan,
	AN	SYMBOL ASSIGNMENT AND PERFORMANCE OF SIMPLEX SIGNALING IN HIGH DIMENSIONAL TRELLIS-CODED MODULATION, by Frank A. Alder, August 1998, (Pages 1-93)
	AO	CIRCULAR TRELLIS-CODED MODULATION IN SPREAD SPECTRUM COMMUNICATIONS, by Yung-Cheng Lo, August, 1997 (Pages 114)

Examiner:

Date Considered:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if in conformance and not considered. Include copy of this form with next communication to applicant.